

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1035933	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 08:55
L2	377431	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 (actuat\$3 positioner\$1 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 08:56
L3	15002	servowrit\$4 servotrackwrite\$4 selfservowrit\$4 STW SSW ((servo self-servo selfservo) near3 (writ\$4 record\$6 format\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 08:57
L4	80480	((burst\$1 pattern\$1 track\$1 cylinder\$1 servo servo-track) near3 (pitch width track-pitch track-width))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:07
L5	274	((L2 same L4) and L3) ((L3 same L4) and L2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 08:59
L6	265	5 and 1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 08:59
L7	182	360/78.05.ccls-	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 08:59

L8	6700	360/75.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:00
L9	300	(3 and 7) (2 and 3 and 8)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:01
L10	294	9 and 1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:01
L11	218	10 not 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:05
L12	73	11 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:05
L13	1057120	(overhang\$3 over-hang\$3 overlap\$4 over-lap\$4 overlay\$4 over-lay\$3 overly\$4 over-ly\$3 (over near2 (hang\$3 ly\$4 lay\$4 lap\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:07
L14	1725912	(burst\$1 pattern\$1 servo servo-track)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:08
L15	49488	13 with 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:16
L16	11	11 and 15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:16
L17	84609	13 same 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:16

L18	18	11 and 17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:17
L19	1	("6603627").URPN.	USPAT	OR	ON	2004/12/10 09:30
L20	7	("5659436"   "5757574"   "5771130"   "6191911"   "6344942"   "6392831"   "6480361").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/10 09:33
L21	5	("6344942").URPN.	USPAT	OR	ON	2004/12/10 09:42
S1	8	("5936805" "6040955" "6429989" "6519107").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 10:16
S2	850103	(micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 ((actuat\$3 position\$3 driver\$1 motor\$1) near\$3 (auxiliary second\$4 fin\$2 micro milli sub dual piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 11:02
S3	1034637	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:37
S4	549100	(actuator\$1 VCM (coil adj motor) HGA HAS (load adj beam\$1) ("e" adj block) positioner\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 10:23
S5	1144	crash-stop\$3 crashstop\$3 (crash near2 stop\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 10:23
S6	6539	((servo self-servo) near2 writ\$3) STW SSW	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 11:11

S7	1100	((servo servo-track) near4 (pitch track-pitch)) servo-track-pitch	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 10:28
S8	17	S2 and S3 and S4 and S5 and S6 and S7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 11:02
S9	1646114	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 (actuat\$3 position\$3 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two "2" multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:43
S10	14986	servowrit\$4 servotrackwrite\$4 selfservowrit\$4 STW SSW ((servo self-servo selfservo) near3 (writ\$4 record\$6 format\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:40
S11	48467	((burst\$1 pattern\$1 tack\$1 cylinder\$1 servo servo-track) near3 (pitch width track-pitch track-width))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:40
S12	402	((S9 same S11) and S10) ((S10 same S11) and S9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 13:35
S13	286	(S9 same S10) and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:37
S14	1034637	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:37

S15	132	((S9 same S11) and S10)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:38
S16	358	((S10 same S11) and S9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:39
S17	269	S13 and S14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:39
S18	80375	((burst\$1 pattern\$1 track\$1 cylinder\$1 servo servo-track) near3 (pitch width track-pitch track-width))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:40
S19	63	S9 same S10 same S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:41
S20	58	S19 and S14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:41
S21	1230786	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 ( actuat\$3 position\$3 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 13:18
S22	120	S21 same S18 same S10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 13:21

S23	103	S22 and S14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 12:46
S24	377031	micro-actuator\$3 microactuat\$3 milliactuat\$3 milli-actuat\$3 microposition\$3 micro-position\$3 subactuat\$3 sub-actuat\$3 ( actuat\$3 positioner\$1 driver\$1 motor\$1 (displace\$4 adj element)) near3 (auxiliary second\$4 fin\$2 micro milli sub dual two multi multiple plural piezo piezoelectric\$4 pzt bimorph piggyback\$3 (piggy adj back\$3) electrostatic\$4 (electro adj static) electro-static ((fast high wide large) near1 (resolution response bandwidth\$1 (band adj width\$1))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 08:56
S25	25	S24 same S18 same S10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 13:31
S26	274	((S24 same S18) and S10) ((S10 same S18) and S24)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 13:36
S27	265	S26 and S14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 13:36
S28	226	S27 not S23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/08 13:37
S29	1	("6493176").URPN.	USPAT	OR	ON	2004/12/09 14:09



S30	22	("5189578"   "5223993"   "5272578"   "5293282"   "5303105"   "5339204"   "5448429"   "5521778"   "5570241"   "5570247"   "5659436"   "5668679"   "5796542"   "5856896"   "5875064"   "5901010"   "5907447"   "5920441"   "5949603"   "6040955"   "6049440"   "6256160").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/09 14:11
S31	80480	((burst\$1 pattern\$1 track\$1 cylinder\$1 servo servo-track) near3 (pitch width track-pitch track-width))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:24
S32	15002	servowrit\$4 servotrackwrite\$4 selfservowrit\$4 STW SSW ((servo self-servo selfservo) near3 (writ\$4 record\$6 format\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:26
S33	15	S30 and S31 and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:22
S34	31678	(burst\$1 pattern\$1) with (overlap\$4 over-lap\$4 (over near lap\$3 trim\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:39
S35	105	S32 same S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:41
S36	1035933	((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:28
S37	97	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:41

S38	28858	(burst\$1 pattern\$1) with (overhang\$3 over-hang\$3 overlap\$4 over-lap\$4 (over near (hang\$3 lap\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:43
S39	84	S32 same S38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:50
S40	76	S39 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:42
S41	48781	(burst\$1 pattern\$1) with (overhang\$3 over-hang\$3 overlap\$4 over-lap\$4 overlay\$4 over-lay\$3 overly\$4 over-ly\$3 (over near2 (hang\$3 ly\$4 lay\$4 lap\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 16:16
S42	99	S32 same S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:50
S43	1690655	(control\$3 govern\$3 moderat\$3 manage\$3 increas\$3 decreas\$3) with (current voltage power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:52
S44	1	S42 same S43	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:53
S45	9	S42 same (current voltage power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 14:55
S46	48	(S41 same (current voltage power)) and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 15:12
S47	6	("5844742"   "5907447"   "5949603"   "6091559"   "6437947"   "6466387");PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/09 15:06



S48	3	S47 and S41 and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 15:07
S49	39	S46 not (S45 S47)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 15:12
S50	36	S49 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 15:41
S51	1	("6611395").URPN.	USPAT	OR	ON	2004/12/09 15:42
S52	99	S32 same S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 15:48
S53	90	S52 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 15:49
S54	74	S53 and "360".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 16:16
S55	62	S54 not S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 15:50
S56	16	S53 not S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 16:17
S57	3991	(determin\$3 measur\$3 calculat\$3 comput\$3 sens\$3) with (burst\$1 pattern\$1) with (overhang\$3 over-hang\$3 overlap\$4 over-lap\$4 overlay\$4 over-lay\$3 overly\$4 over-ly\$3 (over near2 (hang\$3 ly\$4 lay\$4 lap\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/10 09:07

S58	31	S57 and S32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 16:24
S59	30	S58 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/09 16:23